



**Piggott Bottom Road over Branch of Catoctin Creek
Bridge Replacement**

Virtual Public Information Meeting

April 28, 2021



Loudoun County

VIRGINIA

WHERE TRADITION MEETS INNOVATION



PIGGOTT BOTTOM ROAD OVER BRANCH OF CATOCTIN CREEK BRIDGE REPLACEMENT

VIRTUAL PUBLIC INFORMATION MEETING

Wednesday, April 28, 2021

6:30 PM

Dipali Patel, PE

VDOT PROJECT NO. 0711-053-181; UPC 111689

Project Team



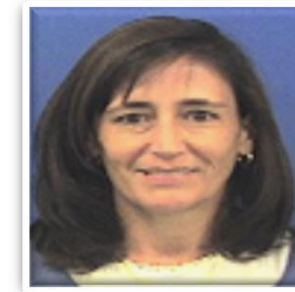
Gary Runco, P.E.
District Bridge Engineer,
Structures and Bridge



Dipali Patel, P.E.
Project Manager
Structures & Bridge



Christopher Young, P.E.
Consultant



Kimberly McCool, P.E.
Manager
Preliminary Engineering

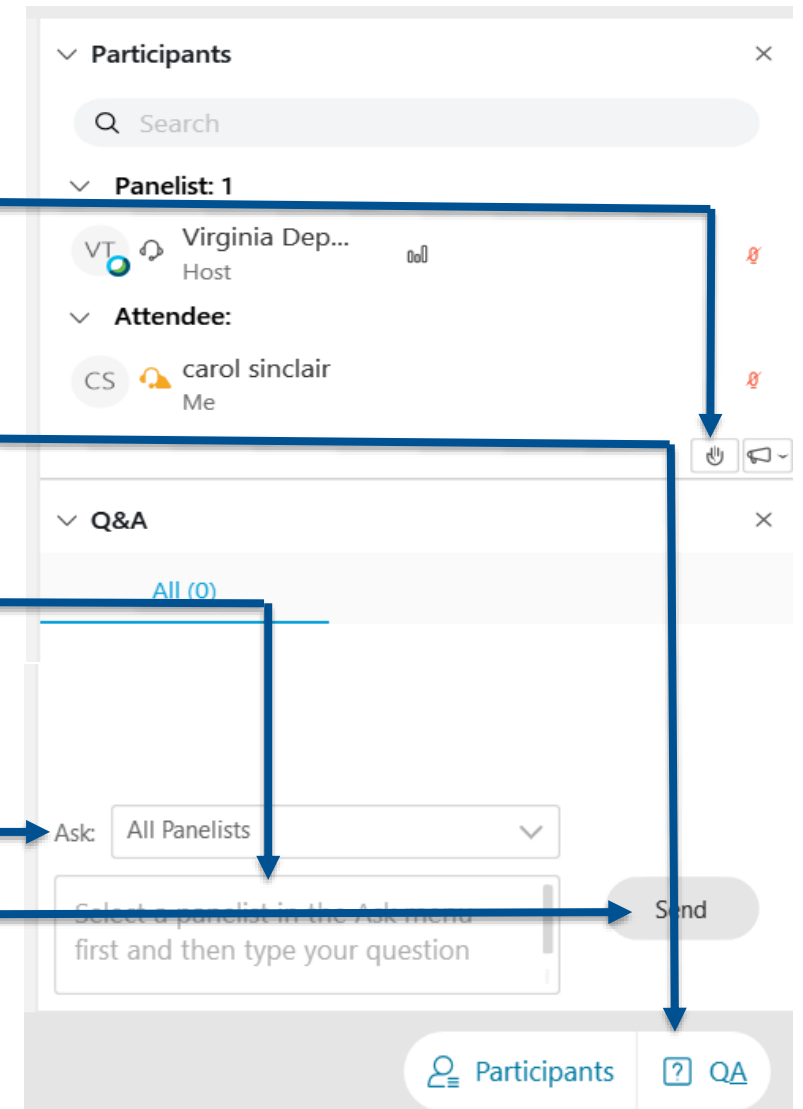
Virtual Public Information Meeting in Response to COVID-19

This virtual public information meeting and the VDOT website provides the same information as an in-person public information meeting:

- ✓ **Project information**
- ✓ **Process for submitting comments**
- ✓ **Key contacts**

Webex Events Tips

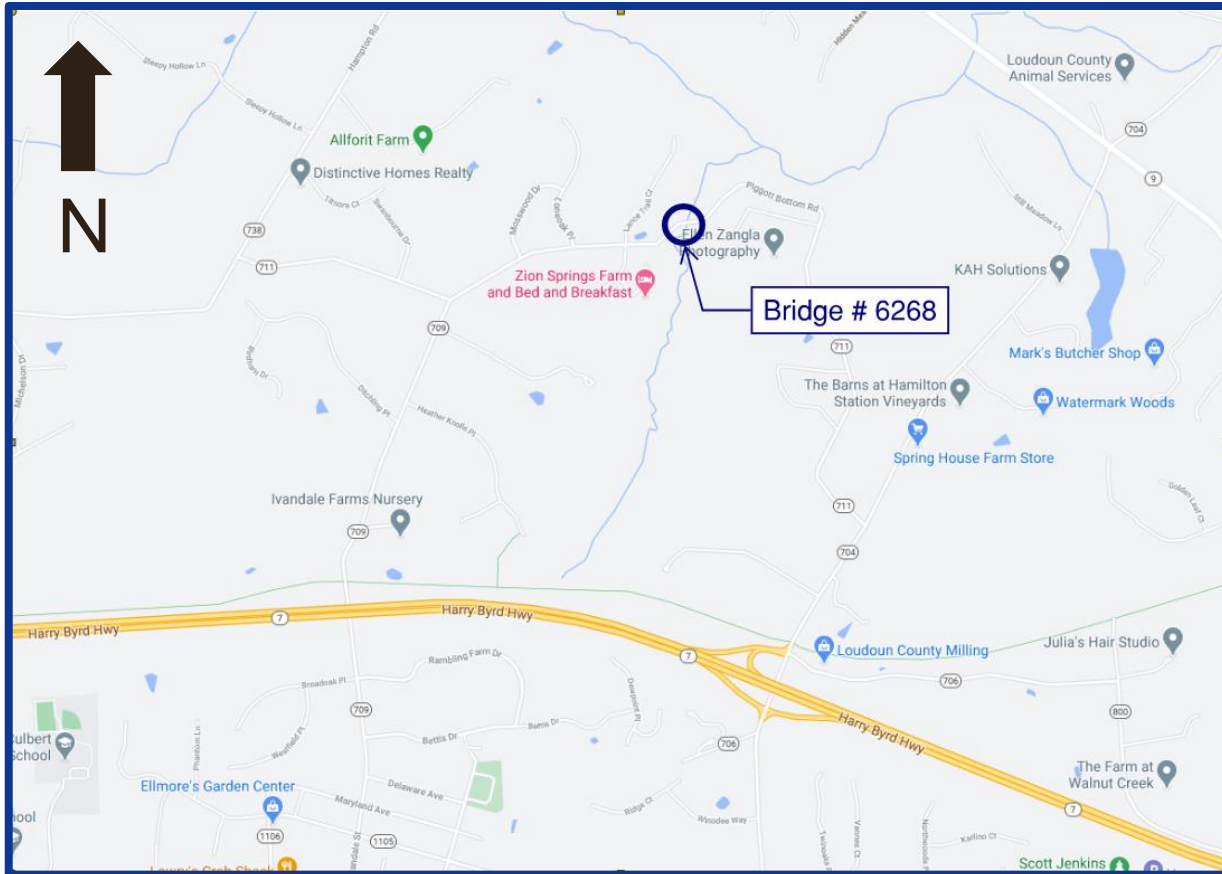
- **To ask an oral question:**
 - Raise your hand and unmute yourself.
- **To type a question:**
 - Click the QA symbol
 - Type question in box to ask a written question
 - Ask: All Panelists and click Send
- **All participants are muted.**
- **If you get disconnected, please attempt to rejoin the meeting.**
- **This meeting is being recorded.**



Presentation Outline

- **Project Overview**
- **Existing Bridge**
- **Proposed Bridge Design**
- **Construction and Maintenance of Traffic**
- **Estimated Costs and Proposed Schedule**
- **Questions and Comments**

Project Location



Project Overview

- Replace the existing bridge on Piggott Bottom Road over Branch of Catoctin Creek due to poor bridge condition
- Minimal roadway work
- The project is funded using State of Good Repair (SGR) funds

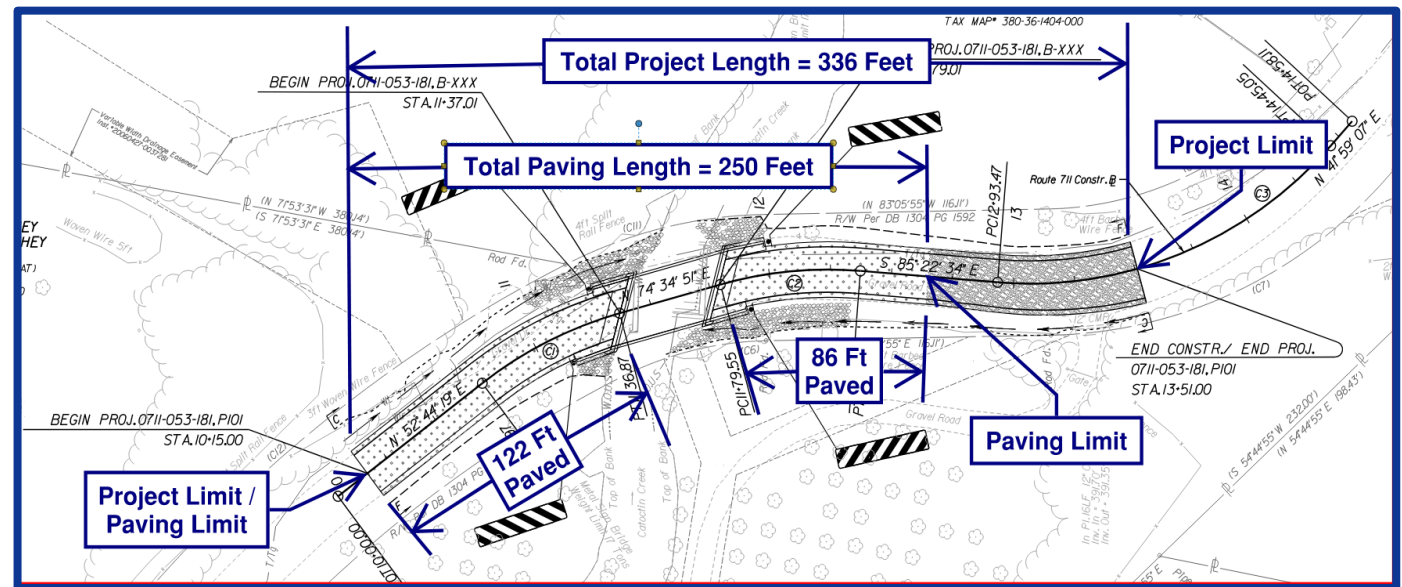


Bridge Location Information

- Approach Roadway – gravel roadway
- Paving Limits determined by SGR guidelines
- Annual Average Daily Traffic is 140



- **Paving Limits:**
East Side: 86 Ft
West Side: 122 Ft



Existing Bridge

- The bridge is a 32' long simple span structure with steel beams and timber plank deck
- The bridge was built in 1932 and rehabilitated in 1992
- Several repairs have been made since 1992



Existing Bridge Condition

- **Superstructure: Poor Condition (Sufficiency Rating 4)**



- **Bridge is restricted to a 17 Ton weight limit**



Existing Bridge Condition

- **Deck: 5 (Fair Condition)**

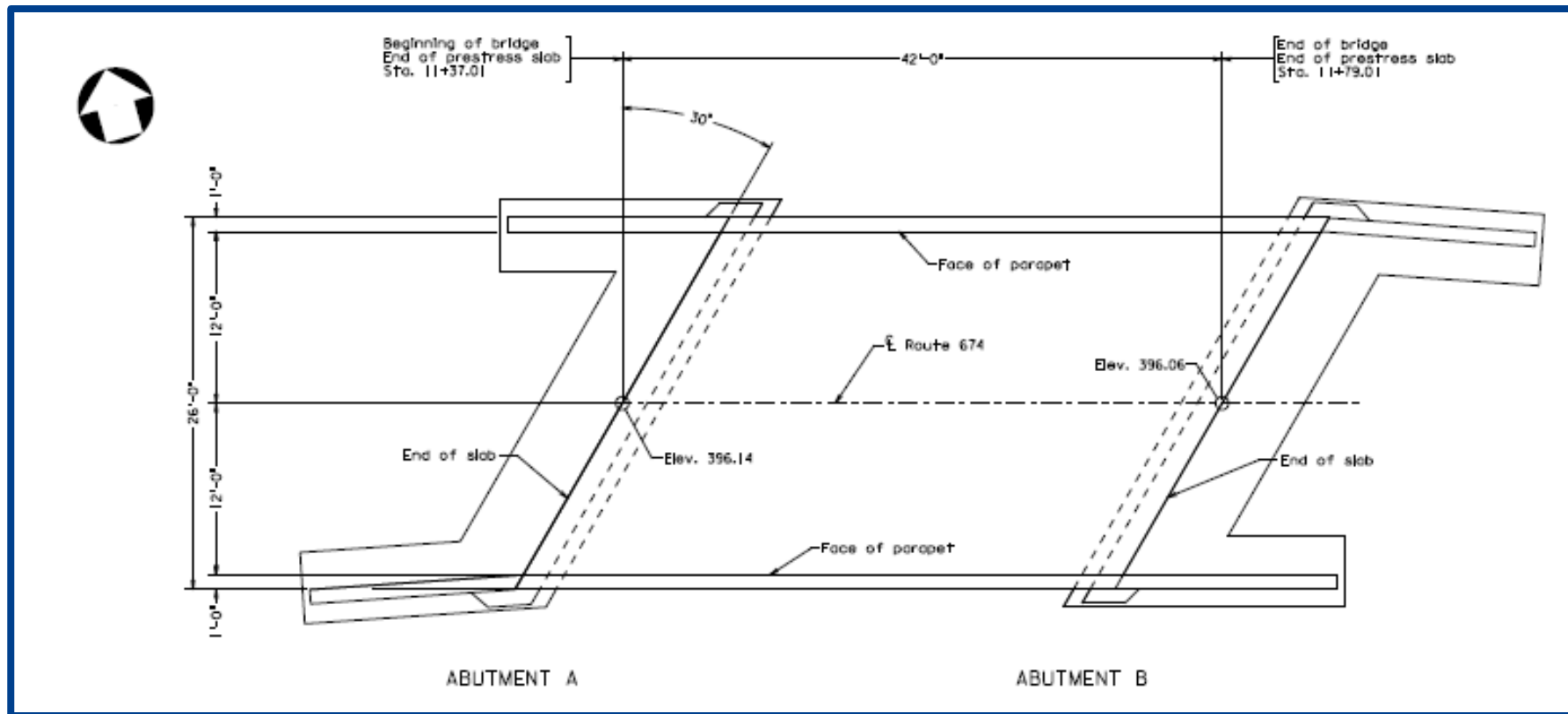


- **Substructure: 6 (Satisfactory)**



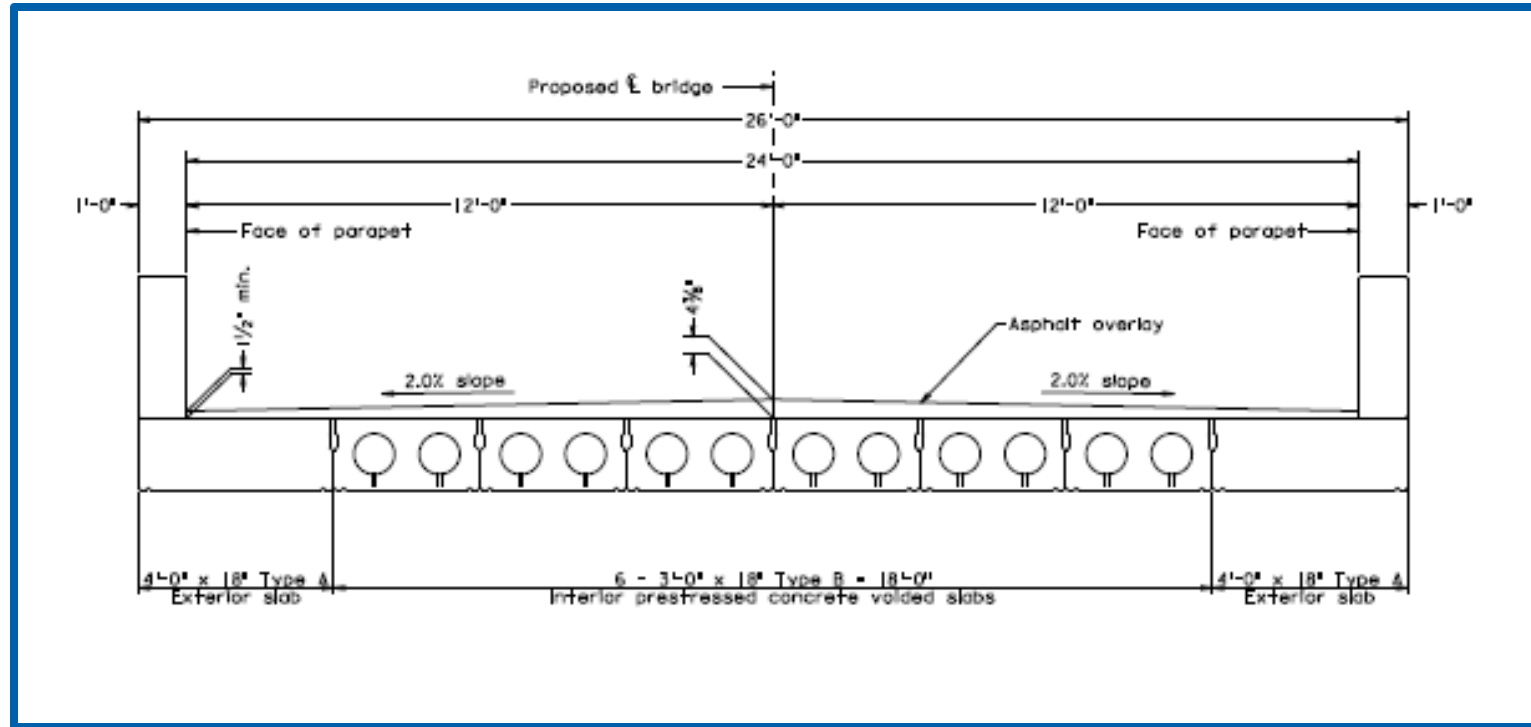
Proposed Bridge – Plan View

- 42' long single span structure



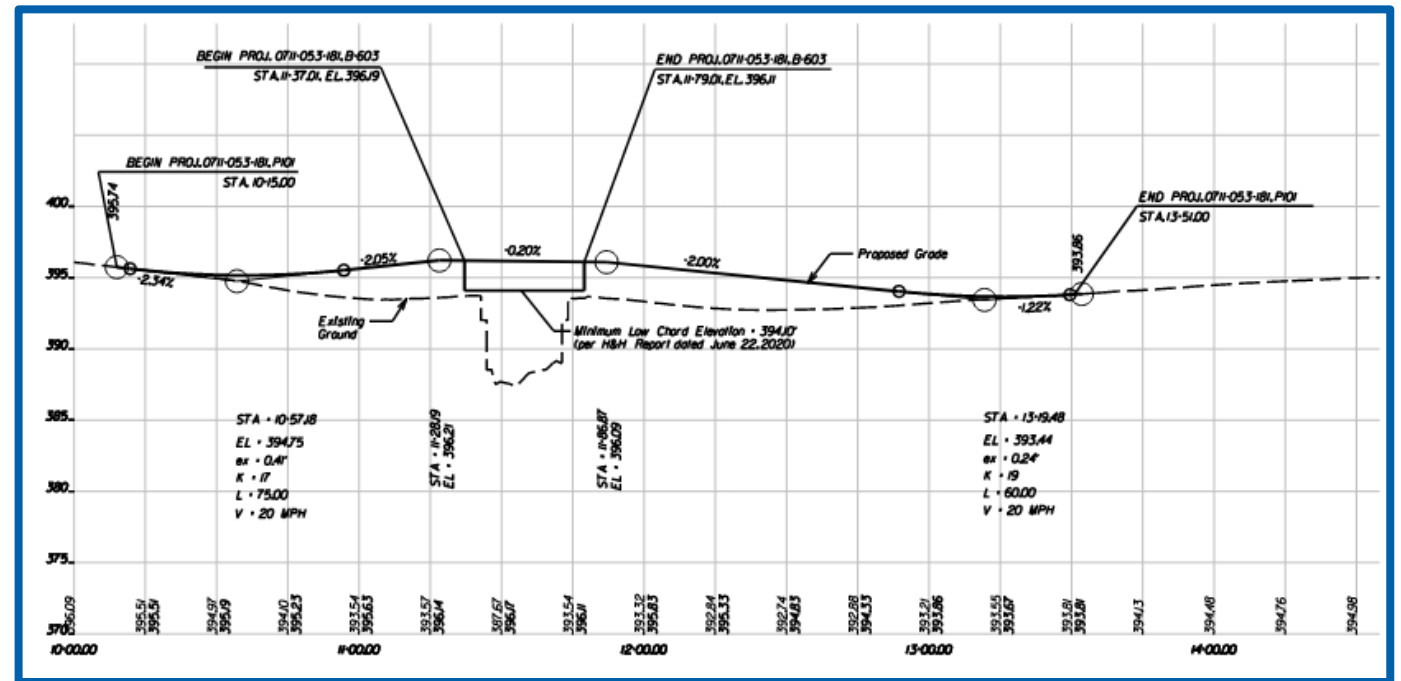
Proposed Bridge - Typical Section

- Out to out width: 26'
- Curb to Curb width: 24'
- Precast Prestressed Concrete Slab Beams are proposed to
 - Provide a low thickness superstructure
 - Flat bottom to avoid catching of debris
 - Reduced long-term maintenance



Hydraulics

- Per VDOT's Hydraulic Manual, roadways classified as "Rural Local" are required to accommodate the 10 year storm event
- Existing roadway does not meet this requirement
- The existing roadway profile will be raised approximately 2.5' to provide additional flow area under the bridge
- The proposed bridge and roadway will now pass the 10 year storm



Proposed Bridge – Roadway View Before and After

Existing



Proposed



Proposed Bridge – Elevation Before and After

Existing



Proposed

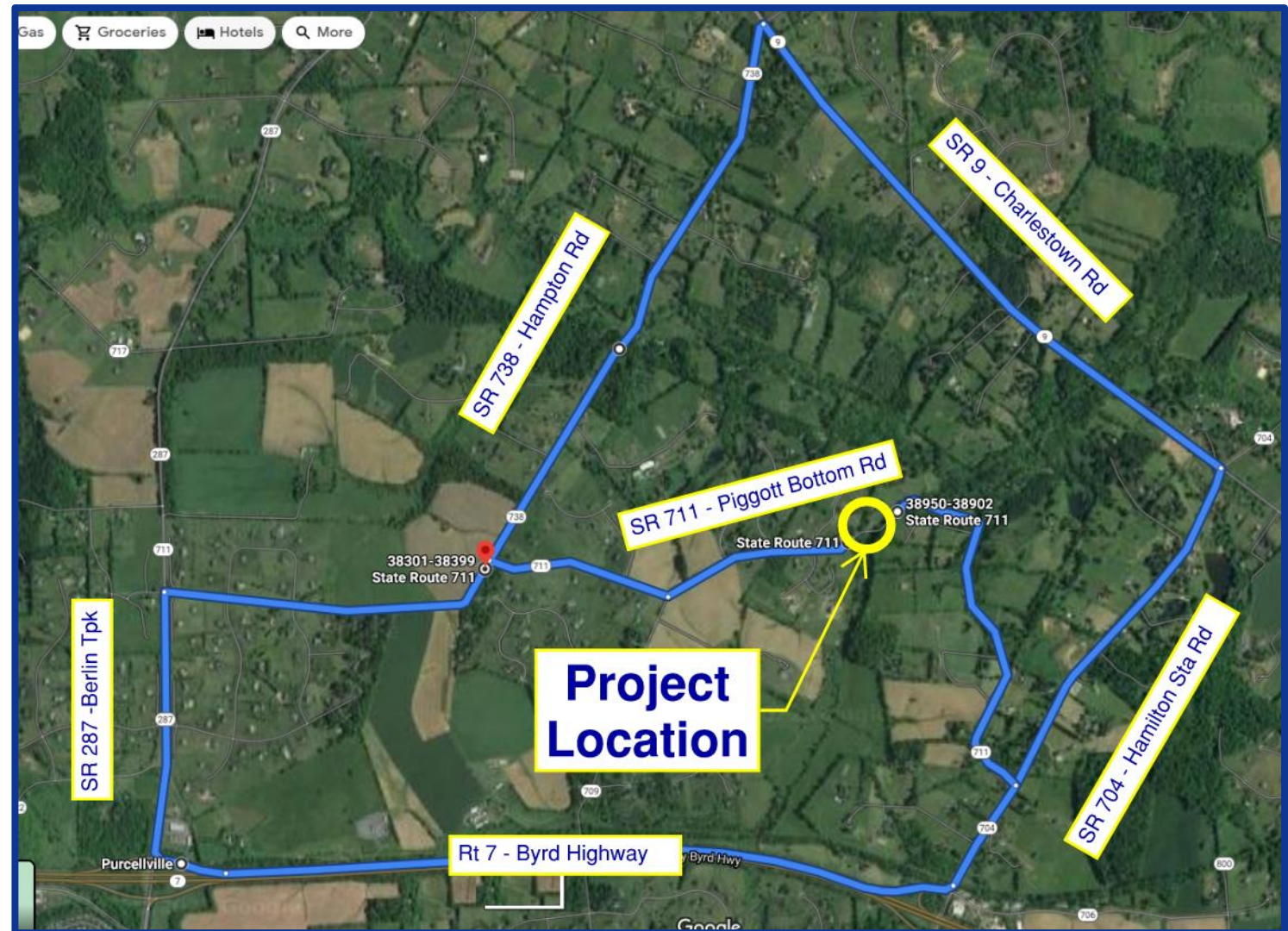


Construction and Maintenance of Traffic

- **Bridge / Roadway will be completely closed to traffic**
- **Partial closure and phased construction not achievable**
 - Timber deck does not support phased construction
 - Superstructure is in poor condition - does not have load carrying capacity for phased construction
 - Curved roadway makes construction of a new bridge along side the existing bridge challenging.
- **Project footprint will be within VDOT Right of Way**

Construction and Maintenance of Traffic - Detour

- Detour will be implemented during the duration of construction
- Anticipated construction time: three to four months



Estimated Project Cost and Funding

Project Cost	
Preliminary Engineering	\$ 500,000
Right of Way/Utility Relocation	\$ 0
Construction	\$ 1,700,000
Total	\$ 2,200,000

Proposed Project Schedule

Milestones	
Public Information Meeting*	April 28, 2021
Project Advertisement Date	January 2022
Construction	Summer 2022

*** No additional public meetings are planned**

How to Submit Your Comments

Give feedback on the virtual public information meeting in the following ways by May 10, 2021:



Email Us

meetingcomments@VDOT.virginia.gov
Please reference “Piggott Bottom Bridge
Replacement”
in the subject line



Mail Us

Dipali Patel, PE
VDOT’s Northern Virginia District
4975 Alliance Drive
Fairfax, Virginia 22030

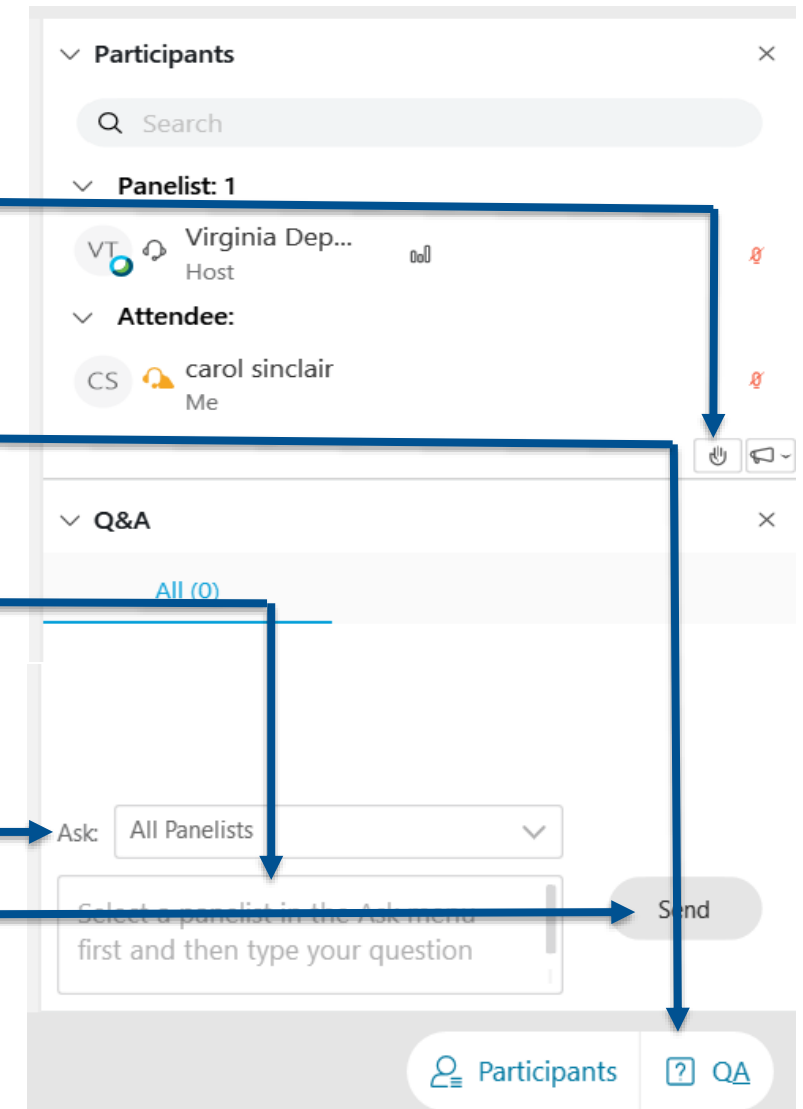


Comment

In the Questions window during the virtual
meeting or online at
www.virginiadot.org/PiggottBottom

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THANK YOU!